

# FOLIO

UNIVERSITY OF ALBERTA

26 FEBRUARY 1993



## INSIDE

- Kaplan Award recipient Chuji Hiruki is always in close touch with nature
- Buffalo, published by U of Press, named Alberta Book of the Year

## Library asks for volunteers to aid implementation of new automated system

The Library is installing a new automated system acquired from St Louis-based Data Research Associates (DRA). "The technology surrounding our current operations, installed in the 1970s, has become obsolete," says Director of Libraries Ernie Ingles. "DRA will replace almost all of our outdated systems, and add new capabilities in preparation for the information environment of the 21st century."

DRA, Ingles adds, will also provide a base system for NEOS, a consortium of government, hospital and other libraries in the Edmonton area.

The new system will allow for streamlining internal operations and for creation of new services, Ingles says. "Because it is incredibly powerful, this system is, by nature, complex. It

calls for a detailed review of current practices, as well as future services to be offered."

The Library is creating a number of specialist implementation teams that will, in part, provide the technical advice required by the Library's technology services division. "But, integral to the process must be the ability for the Library and its client community to specify how they wish the system to operate—the options are almost infinite," Ingles says.

"Although much of the work of the teams comprises detailed database work, in my judgment they would profit from having participation by active clients of the end product."

The Library, then, invites faculty, staff and students to submit their names for the DRA project.

Ingles continues: "We wish to create a pool of volunteers from which we can draw when creating the teams. The participation called for is not pro-forma, but substantive in time and in work. It will be time-consuming, but together, we will be able to develop better services."

Examples of teams under consideration currently include:

- Agency Structures (defines the patterns with which DRA determines who is allowed to what and where);
- Circulation (implements the policy requirements arrived at by the Library and its user community);
- Publicity/training (creates the appropriate environment in which all parts of the Uni-

versity community are well informed of developments and services);

- Acquisitions (defines new relationships between the Library and its vendors);
- A number of technical teams, such as database conversion and bar coding.

The Library's target for implementing the new circulation and catalog environment is September 1993. This means that work has to be completed by early August so the system can be tested with a live load.

Those wishing to participate are invited to get in touch with the project manager (Jim Heilik, 492-5282, PROFS jheilik) by the end of February.

"We may not be able to involve everyone, but it will be nice to have a rich pool of resource support when needed," Ingles says.

## Students set to 'pester' candidates during the coming provincial election

*Students' Union wants to make sure postsecondary issues are addressed during campaign*

Pest: n. troublesome, annoying, or destructive person, animal, or thing. Well, that's how *The Concise Oxford Dictionary* sees it anyway. But University of Alberta students will be putting a much more constructive spin on the word during the coming provincial election campaign.

Students' Union organizers have decided to enlist the support of a group of volunteer students who will make sure postsecondary education issues are high on students', candidates' and voters' agenda—before and during the expected provincial and federal elections this year. So a pre-election strategy team (PEST) has been established to do just that.

SU Vice-President (External) Terence Filewych says the team, made up of student volunteers concerned about the future of postsecondary education, will have a three-pronged advocacy approach. First, a student-directed campaign will be used to heighten awareness among students on campus about the issues facing the postsecondary education system.

Second, a candidate-directed campaign will be designed to determine where the candidates stand on the postsecondary education issues. For example, Filewych explains, the candidates will be sent information about the deterioration of postsecondary education funding and questionnaires to determine where they stand on the issues. That will take place before and during the elections.

"We want to show the candidates the potential strength of our lobby," he says, adding that meetings will be set up between students and some of the candidates. Furthermore, the SU wants students to know where the candidates stand on the issues and will be publishing that information.

Third, there will be a public-directed campaign, similar to the student-directed cam-

paign. Information will be distributed to demonstrate the erosion of support for postsecondary education. "We'll try to reach out to groups in the community, such as Rotary Clubs and parent-teacher associations," Filewych says. Ultimately, it's the voter who will make a difference.

Each of the three components of the campaign is managed and coordinated by two volunteers, who will be developing concrete strategies to accomplish the overall objective of raising the profile of postsecondary issues before and during the elections. Although they don't know when the elections will be called, PEST organizers want to be prepared:

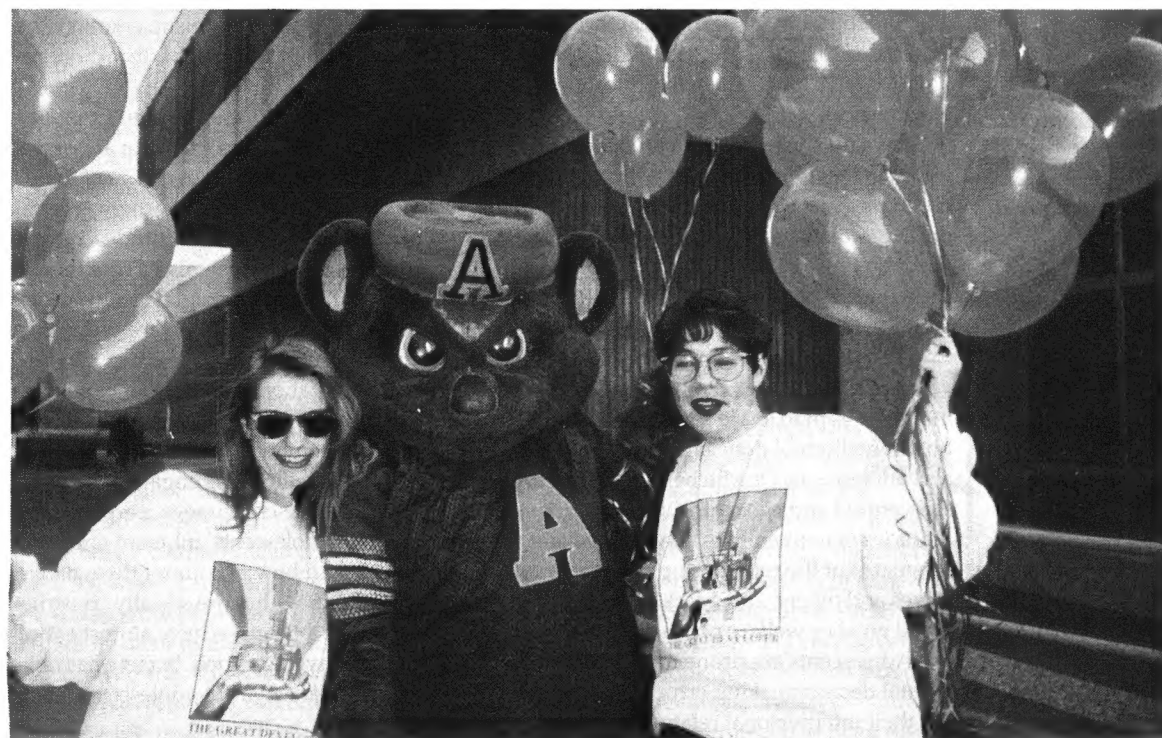
they intend to have the campaign well under way by mid-March.

It will be a strictly nonpartisan campaign, and SU organizers are inviting people of all political persuasions to volunteer. It can't be partisan, says Filewych, because student leaders are elected to represent a diverse group of people on campus.

He admits students will find it tough to get involved. Increasingly, the competition for superior GPAs is forcing students to concentrate their efforts on academics, says Filewych. Unlike seniors who have the time and are able to mount effective lobbies, students are hard-pressed to find the time for this sort of activity.

"However, students are frustrated," Filewych says. "Tuition is going up, loans are stagnating and summer employment opportunities are decreasing. This [PEST initiative] is going to be an outlet for students who want to try and make some changes and challenge the politicians to address the issues."

Resources are limited, so a select group of constituencies will be targeted, he says. And certainly one of those will be the constituency in which the University is situated. The SU is also using its researcher to determine in which constituencies the University's students reside.



### Busy, but bearing up well

University Orientation Days is in full swing and that means GUBA, SORSE Director Sasha Krstic (right) and volunteers like Audrey Boda are here, there and everywhere. Some 5,000 Alberta high school students are taking in classroom presentations on 53 subject areas, touring the campus, and, above all, asking questions and getting answers. The two-day event concludes later today.



# Hail, Fellows

**Royal Society of Canada Fellows from Alberta's universities to gather at U of A**

Faculty of Arts Dean Patricia Clements and Faculty of Science Dean Dick Peter will co-host the Alberta Symposium 1993 of Fellows of the Royal Society of Canada.

The symposium, the first of what Deans Clements and Peter hope will be an annual affair, will be held 5 March (starting at 8:45 am) in CW410 Biological Sciences Building.

The list of speakers contains the following University of Alberta professors: Werner Israel ("Cosmology: Now and the Future"), Leslie Green ("Whither the United Nations"), David Schindler ("Long-range transport of airborne toxins: A threat to northern ecosystems and northern cultures"), and Juliet McMaster ("Designing the passions: From Le Brun to Richardson").

Martha Piper, Vice-President (Research), and Cooper Langford, her counterpart at the University of Calgary, are the luncheon speakers ("Promoting excellence in research at the Universities of Alberta and Calgary"). Norbert Morgenstern's "Report on finance and fund-raising committees of RSC" will follow."

Other sessions will be presented by John Woods of the University of Lethbridge's Department of Philosophy ("Uncorroborated accusations: Hill and Thomas") and Roy Lindseth of the U of C's High Performance Computing Centre ("Super Computing").

The keynote lecture, which is open to all members of the University and the general public, will be presented by Richard Lipsey, professor of economics at Simon Fraser University and Alcan Fellow of the Canadian Institute for Advanced Research. Dr Lipsey's topic is "Technological Change, Globalisation and Economic Policy"; he will be introduced by President Paul Davenport and will speak at 4 pm in TL12 HM Tory Building.

Dr Lipsey was for six years senior economic advisor for the CD Howe Institute.

He is a past president of the Canadian Economic Society and the Atlantic Economic Society. On behalf of CIAR, he is directing a large-scale, international research project on economic growth and policy.

The symposium will conclude with dinner and an after-dinner (8:30) address by Peter Meekison, titled "Is that light at the end of the tunnel or is it a train coming towards us? Putting Canada's Constitution back on track."

Dinner tickets must be purchased in advance (\$30; make cheques payable to "Alberta FRSC Symposium").

The Alberta Symposium 1993 of Fellows of the Royal Society of Canada is supported by President Paul Davenport, the Offices of the Dean of Arts and the Dean of Science, respectively, and the Royal Society of Canada.

Founded in 1882, the Royal Society of Canada is the senior national organization of distinguished Canadian scholars in the arts and sciences. Its aim is the advancement of learning and research in Canada.

## Faculty of Education bestows first undergraduate teaching awards

**Robert de Frece, Graham Fishburne and Fern Snart the recipients**

"We should celebrate teaching a lot more than we do," says Graham Fishburne, one of three recipients of the Faculty of Education's undergraduate teaching awards.

The Elementary Education Professor told his colleagues last week that it would not have been possible to receive such an award without the support of students, colleagues and people in the broader community. He encouraged other equally deserving professors to let their names stand for nomination for future undergraduate teaching awards.

Other recipients of the first-time award, which will now be awarded annually, were Robert de Frece (Elementary Education) and Fern Snart (Educational Psychology).

Faculty of Education Dean Harvey Zingle said "we've talked a lot this year about caring for our students, and I don't think there's any better way of doing that than to have out-

standing teaching." The Dean added that the Faculty wants to focus more on good teaching and rewarding good teaching.

As a Faculty, we're trying to show our commitment to teaching in a variety of ways, he said at a reception and awards ceremony last week.

Dave Sande, Associate Dean for Undergraduate Student Services, who also headed the selection committee, said the new awards are the result of a decision made last year by the Faculty Council to establish undergraduate teaching awards. The awards are modelled on the Rutherford Undergraduate Teaching Awards, he explained, and each recipient receives a plaque and \$1,000 which is to be used for professional development.

Dr Sande said it was significant that nominations can come not only from departments, but from students. In fact, one of the three recipients was nominated by a student.

## Minister predicts significant change for Advanced Education system

Restructuring the system of Advanced Education in Alberta is a real possibility for the Minister, Jack Ady.

Ady gave the indication last week at the legislature during his department's first public presentation to the cabinet's standing policy committee on financial planning.

"We have to look at restructuring the system ... we have to look at a new way of operating our postsecondary system. Hopefully, we'll come up with something acceptable to all stakeholders ... including those who pay the bills."

The Minister said the government is now completing a discussion paper which will form the basis for a widespread consultation process expected to begin this May or June.

The new standing policy committee on financial planning is chaired by Walter Paszkowski, MLA. Committee members at-

tending the session on 17 February included Paszkowski, Municipal Affairs Minister Steve West and MLAs Nancy Betkowski, Rick Orman and Bill Payne. Bonnie Laing,

MLA for Calgary Bow who is not a member of the committee, attended the session out of interest for the subject matter. Five other cabinet ministers and five MLAs were unable to attend.

## Physical Plant requests a 'riptide'

How can I make a difference, you ask? When it comes to recycling paper, the answer, direct from Physical Plant, is: remove the front and back covers and the spine of your white- and yellow-page phonebooks and consign them to the garbage container. All the other pages are newsprint, are recyclable and should go in the containers marked Recycling Paper Only.

There are 6,500 copies of the 1992 white pages on campus (560 pages per book) and

5,400 copies of the yellow pages (1,016 pages per book), says Werner Larsen, Building Services Manager. Physical Plant has neither the time nor the staff to remove the covers and spines, he says.

As for copies of the old (U of A) Telecommunications Directory, Miller asks that individuals pull the plastic coil and the front and back covers and drop them in the garbage and put the remaining 52 pages in the recycle containers.

## FOLIO

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**Notice of coming events:** 9 am three weeks in advance of event. **Classified advertisements:** 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 30 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

**Display advertisements:** 3 pm Friday, seven days before desired publication date. Camera ready artwork is required to size, complete with halftones if necessary. Contact Public Affairs for sizes, rates and other particulars.

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**University  
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## 'Youth pathos': the costs to society are becoming staggering, McCalla Professor says

Contemporary psychological theory has failed to explain "at-risk" adolescent behaviour, says John Mitchell (Educational Psychology).

"In a nutshell, there is a great deal of adolescent behaviour which is not explained with much proficiency, or much dignity in contemporary adolescent theory," Dr Mitchell, a McCalla Professor, declared last week at his presentation of the McCalla research project he is conducting.

At-risk youth—youngsters who are on the verge of doing things that will cost the state money—seem to share several common emotional-intellectual deficiencies with narcissists and adolescents, Dr Mitchell said. They are self-centred and egocentric, have exaggerated attitudes of entitlements, have unrealistic assessments of the relationship between themselves and others, and a lack of concern for the social good or welfare of others.

Adolescents are prone to making fundamental decisionmaking errors and to distorting their interpersonal relationships, and they

are susceptible to emotivism, emotionalism and many forms of thought distortion, he stated.

The author of *The Adolescent Predicament* said that when he was studying at-risk youth, typically found in the inner cities of the United States, he began to recognize certain consistent patterns in the attitudes, thinking patterns and belief systems. "From these encounters I began to formulate a new category of at-risk youth: youth who are prone toward destructive, nonproductive behaviour because of limitations and deficiencies inherent to their thinking process and deficiencies within their emotional fabric."

Now, Dr Mitchell is engaged in studying how our society encourages, perpetuates and maximizes adolescents' inherent narcissistic attributes and how to counter these narcissistic tendencies with more socially constructive behaviour. Obligations have almost entirely been one way, he argued. Society has obligations to adolescents, but adolescents feel few obligations to society.

The bill for "youth pathos" is becoming staggering in North America, said Dr Mitchell, and is becoming a dominant North American phenomenon. Those who work in universities don't see much of this, he pointed out. For example, the so-called "million-dollar mama", a teenage girl who has a baby during adolescence, is perhaps addicted to cocaine and has another premature baby, may incur a million dollars in medical costs. That's enough money to send 25 18-year-olds to university for four years at \$10,000 per year.

"Psycho-economics" is a new concept that's emerging as a means of evaluating the adolescent experience in North America, he said. As well as looking at the costs associated with adolescents who fit the "million-dollar mama" profile, the concept examines nonpathological behaviour which ultimately escalates the incidence of pathological behaviour, for example, dropping out of school, sexual intercourse resulting in pregnancy, gang membership and alcohol and drug experimentation.



# University emphasizes drug education program

At a news conference last Monday, Department of Athletics Chair, Dale Schulha emphasized the importance of the University's Drug Education Program for U of A athletes.

Schulha said the program consists of seminars, conducted annually by the department, which include oral presentations and videos on the hazards of drug abuse. Educational materials provided by the Canadian Centre for Drug-Free Sport are also distributed.

At the news conference, the suspension was announced of track and field athlete Oral O'Gilvie from university athletics for violating the Canadian Interuniversity Athletic Union's (CIAU) prohibited substances rules. O'Gilvie, a fourth-year science student and triple jumper who competed in the 1992 Olympics, submit-

ted to an unannounced doping control session administered by Athletics Canada. Analysis revealed the presence of metabolites of the steroid testosterone.

O'Gilvie said the decision to take steroids was his alone and his coaches and teammates did not know he was taking the performance-enhancing drugs. "It was a stupid decision and a bad decision," he said. "I'm happy I was caught. I didn't think about the longer term effects of the drug." The 24-year old athlete added that at one time he thought he could make it into the elite ranks of the top eight in the world in his sport.

Schulha said he fully endorses the suspension decision. "The University is unequivocally opposed to the use of prohibited sub-

stances by all students and the Athletics Department conducts an active drug education program for all student athletes." Associate Chair of Athletics, Dan Syrotuik, is drug resource information officer on faculty. Dr Syrotuik is recognized nationally as a leader in research on performance-enhancing drugs.

"We're supportive of Oral as a person," Schulha said, "and offer him assistance regarding this problem. We will do our utmost to encourage him to continue his academic career at the U of A and to help educate others about the consequences and dangers of drug use."

Schulha says he sees this incident as "a real wake-up call for our athletes and a timely reminder of the consequences of a poor decision."

# AHFMR channels \$13 million into medical research in province

The Alberta Heritage Foundation for Medical Research has committed \$13 million more for research at the University of Alberta and the University of Calgary over the next five years.

The funding supports 12 new scientists (six at each institution) who will investigate areas such as: photodynamic therapy for cancer, breathing problems in newborn infants, heart disease, cell communication, and the prevalence of psychiatric disorders in couples.

As well, these funds extend support for 21 current Heritage medical researchers who

have contributed significantly to medicine and meet international standards of research excellence. Their advances include: developing faster diagnostic tests for skin cancer, improving treatments for heart attack patients, new insight into the basis of diabetes and other immune disorders, and new information on the cell biology underlying brain diseases.

AHFMR President Matthew Spence says, "The record of achievements of international scientists who have been renewed is impres-

sive ... they are making groundbreaking medical discoveries, which are also having an important impact on medical education and patient care in Alberta. Because of our stringent review system, we are also confident that the new researchers recruited have the potential to succeed, as the majority of our researchers have in the past 12 years."

Since 1980, AHFMR has contributed more than \$400 million, making Alberta the largest supporter of medical research per capita in Canada.

# Chuji Hiruki: a faithful servant of the agricultural community

University of Alberta professor's research earns him the J Gordin Kaplan Award



University Professor Chuji Hiruki is at home both in the field and the laboratory.

Chuji Hiruki remembers vividly the sense of panic he felt when he awoke that first day in Edmonton. As he looked out the window of the downtown hotel where he was staying, he noticed the sun was unusually high in the sky. He thought he had overslept. "I thought it was noon!" His potential employers and colleagues at the University would not be impressed.

Dr Hiruki had never visited northern latitudes in the summer, and therefore was unprepared for the long days. Now, two and a half decades later, the plant scientist routinely arrives on campus between 6 and 6:30 and watches the skies brighten over Edmonton from his fourth floor office in the Agriculture-Forestry Building.

He's at home here now and in marked contrast to the sense of anxiety he first felt when he arrived in the province, he feels a tremendous sense of exhilaration whenever he's on the expansive southern grasslands of the province, the central Alberta parklands, or the grain fields of Peace Country. This is his turf—and he knows it intimately.

But the University is also his home. In the fields and in the laboratory, Dr Hiruki has devoted his (basic and applied) research career to helping farmers combat plant diseases. On 10 March, the University will honour the internationally recognized plant scientist by awarding him the 1993 J Gordin Kaplan Award for Excellence in Research. In 1991, the University named Dr Hiruki University Professor.

He wasn't always interested in plant pathology. In fact, as a high school student in Japan, he was fascinated by literature and history. He had a particular interest in Mesopotamian archeology. However, after the war, his father, a small landowner, needed his eldest son's help on the farm. "That gave me a chance to come into close contact with nature. I became interested in plants—particularly diseases. I wanted to know why these occurred."

So the young man went off to Kyushu University to complete a BSc. During his second year, he read an article by a university professor on a plant virus. The next day, he spoke to the professor, who advised him it was too early to specialize. Improve your English, the professor advised Hiruki. "At that time, there were only a couple of textbooks on plant viruses in the world," recalls Dr Hiruki.

The young student persisted, however. Three times he went to the professor's office and each time he was advised it was too early to specialize. Nevertheless, he completed his 200-plus page BSc thesis on a particular to-

bacco virus and was promptly hired by the Hatano Tobacco Experimental Station.

A junior scientist, he worked closely with Japanese farmers for 11 years. He says that that experience was formative and taught him the importance of doing applied research. Meanwhile, the 28-year-old earned the privilege of studying biochemistry at the University of Wisconsin on a Fulbright Research Fellowship. "Since it was an emerging science, I knew I had to study biochemistry." He then returned to do his PhD at Kyushu.

Again, he returned to the United States, spending one year as a visiting plant pathologist at the University of California and one year as an honorary fellow at Wisconsin. In 1966, he was invited by the University of Alberta to fill a virologist's position in plant science and to start a graduate program.

In the early days, he was heavily involved in developing more modern methods of detecting viruses for a seed potato program. At that time, he recalls, it was done visually. He then recommended using serology and electronmicroscopy techniques, and his expertise was subsequently sought around the world. He still maintains that interest in potatoes. Now, however, he's refining molecular biological approaches to detect viruses.

Dr Hiruki says his work has not been limited to a single plant or commodity and has focused on tobacco, potatoes, legumes, alfalfa, clovers, trees, wheat and barley.

A member of several international working groups, Dr Hiruki is a strong proponent of interdisciplinary training. Many of his own graduate students come from areas such as genetics and biochemistry. "It's very advantageous for young people to have knowledge and training in other areas," he says.

As well as applying himself to plant pathology problems in an interdisciplinary fash-

# Joan Stanley-Baker: Distinguished Visitor

Art historian Joan Stanley-Baker will be at the University of Alberta from 26 February to 13 March as a Distinguished Visitor in four departments: East Asian Languages and Literatures, Art and Design, Clothing and Textiles and Anthropology.

Dr Baker, a specialist in Chinese as well as in Japanese art, is associate visiting professor and director of the Arts Center at National Tsing Hua University, Taiwan.

A graduate of Princeton and Oxford, she has been a potter, TV actress, musician, language teacher and, from 1975 to 1980, the inaugural curator of Asian art, Art Gallery of Greater Victoria.

From 1989 to 1991, she was Inaugural Trinity Foundation Fellow, Trinity College, University of Melbourne.

Dr Stanley-Baker will give four public lectures in the first two weeks of March (see "Talks" listing). She will keep office hours at 417C Arts Building for interested colleagues, students and community members.

## CaPS career forums

Career and Placement Services next career forums are: Anthropology Career Forum (3 March) and Starting Your Own Business Forum (4 March). Both events run from 6 to 9 pm in B-45 Tory Building. Tickets are \$3 at CaPS (4th Floor, Students' Union Building) or \$4 at the door.

## WISEST TO CELEBRATE 10TH ANNIVERSARY

Ten years ago, the late J Gordin Kaplan, Vice-President (Research), attended a standing room only seminar on microprocessors, at which only one woman was present. Shortly after that he founded Women in Scholarship, Engineering, Science and Technology. Its mandate was to encourage young women into the sciences and engineering.

Now WISEST is celebrating the 10 years of its existence by holding a celebratory dinner at St Basil's Cultural Centre, 9 March, 6 pm. Proceeds from the dinner will be used to launch a speakers' fund in memory of Dr Kaplan.

Tickets are \$25 (\$10 for school and undergraduate students) and can be obtained by calling 492-1842.



# Buffalo recognized as Alberta Book of the Year

Three U of A professors edit multidisciplinary collection



William Rowan, *Buffalo Head*, 1925? Graphite on paper. University of Alberta Archives 69-16.

Wildlife artist Clarence Tillenius once asked the wardens of Wood Buffalo National Park to stampede a herd of buffalo toward him, so he could experience what it would be like to be in the centre of the galloping beasts. He had been commissioned to paint a re-creation of the Red River buffalo hunts of the 1870s.

Understandably, as he lay huddled in a pile of brush and logs, he had some second thoughts about the advice the wardens had given him. Show yourself in time, and the herd will split, they assured Tillenius. He lived to retell the experience and to relate many more tales about his life as an artist among the buffalo.

Tillenius' story is one of a number of stories about the western icon included in *Buffalo*, this year's Alberta Book of the Year, an honour bestowed earlier this month by the Book Publishers Association of Alberta. The award was presented for a single title which shows outstanding literary merit in content, innovation, or service to the Alberta community.

Edited by three University of Alberta professors and published by the University of Alberta Press, the book contains pieces from specialists in the natural and social sciences, humanities and fine arts.

The multidisciplinary collection examines the role of the buffalo in the plains ecology, its cultural significance and its present and uncertain future. Editors John Foster (History), Ian MacLaren (English/Canadian Studies) and Dick Harrison (English) have edited 12 articles for the book, written by specialists from on and off campus.

"I think we did succeed in our conscious effort to make academic work accessible to public readers," says Dr MacLaren. "The point of this interdisciplinary exercise was to cover as many different points of view as possible."

The book also represents the move away from publishing the journal *Alberta* to the publication of an annual book in the Alberta Nature and Culture series. Each book will have a theme. *Buffalo* is the first book in the series. After Head-Smashed-In Buffalo Jump Interpretative Centre was officially opened, there was a feeling that an issue on buffalo could be developed, explains Dr MacLaren. Some contributors were asked to submit articles and there was also a call for papers. The book was published in the summer of 1992.

Michael Wilson's article sets the context by tracing the animal's history from the time of continental glaciers to the species' recent past. Jack Brink looks at the history of the Head-Smashed-In Buffalo Jump project, and Ed Sponholz examines the programs and displays at the centre.

Dr Foster offers a distinctly different view of the slaughter of the plains buffalo north of the 49th parallel, by examining the role native peoples played and the choices they made. Dr MacLaren looks at the buffalo in word and image, from European origins to the art of Tillenius. That's followed by Tillenius' own essay, *An Artist among the Buffalo*.

The book also tackles the recent controversy about the future of the buffalo. Tom Chowns, Hal Reynolds and Cormack Gates provide an historical view of the buffalo in Wood Buffalo National Park. Lou Carbyn argues wolf predation is a critical factor in the life of the animal in the area. Gary Wobeser examines how diseases in domestic animals, particularly cattle, have been handled. And Stacy Tessaro examines the issue of disease in animals, including humans, concluding that the diseased buffalo pose a risk to animals and humans.

Theresa Ferguson's and Clayton Burke's article presents the native perspective on the issue of how to handle the problem of diseased buffalo in the WBNP area. And Milt Wright looks at the weighty issue of the thermal properties of "buffalo chips" as fuel.

The book will be carried in all local bookstores, says University Press Director Norma Gutteridge. It will also be carried in some libraries and bookstores around the province and at historic sites such as Head-Smashed-In Buffalo Jump Interpretative Centre. It will sell for \$16.95. The book was supported by the Alberta Foundation for the Arts, the University/Community Special Projects Fund, the University and the Historical Resources Division of the Alberta Department of Culture and Multiculturalism.

Drs Foster and Harrison will continue to be the managing editors for the series. The next book in the series is titled *Women in Alberta*. The editors are Cathy Cavanaugh and Randi Warne.

## Gene targeting pioneer to visit campus

Mario Capecchi will speak on creation of 'knockout' mice

One of the pioneers of what has come to be known as "knockout" technology, or gene targeting, will be a visitor to the University of Alberta on 5 March.

Mario Capecchi, a Howard Hughes Medical Institute investigator at the University of Utah in Salt Lake City, was invited by the graduate students of the Department of Biochemistry to deliver this year's Merck Frosst Distinguished Lectureship. At 11 am in Bernard Snell Hall, Mackenzie Health Sciences Centre, Dr Capecchi will speak on "Creating Mice With Targeted Disruptions in Proto-oncogenes and Homeobox Genes."

Gene targeting refers to the ability to introduce foreign DNA into a specific place in a cell's chromosomes. If the foreign DNA is targeted to insert into the region of a gene that codes for a specific protein, then the coding sequence will be disrupted and it will no longer be able to direct the synthesis of that protein. This provides investigators with an extremely useful tool for studying the function of particular genes and proteins.

While knocking out a gene in simple organisms like bacteria or yeast has been routine work for many years, selectively disrupting genes in complex animals like mice was just science fiction a few years ago. Dr Capecchi developed methods that would allow targeting of a relatively small piece of DNA to a very specific place in the complex mixture of sequences in a mammalian cell's chromosomes.

A few years ago, only a few labs in the world were capable of targeting genes in embryonic stem cells, and the data that the resulting mutant mice generated were published very sporadically. Now, thanks largely to Dr Capecchi's efforts, this technology has rapidly become accessible to almost any molecular biology lab.

Gene targeting technology has had a pronounced effect on a number of fields, most notably immunology and developmental biology. It has also enabled the production of mouse models for human diseases, such as cystic fibrosis.

## Ukraine's ambassador to Canada to deliver Shevchenko Lecture

Independent Ukraine's first ambassador to Canada, Levko Lukianenko, will be in Edmonton to deliver the 1993 Shevchenko Lecture. The lecture—"Building an Independent Ukraine: Current Policies and Future

Tasks"—is scheduled for 1 March at 7:30 pm in Convocation Hall.

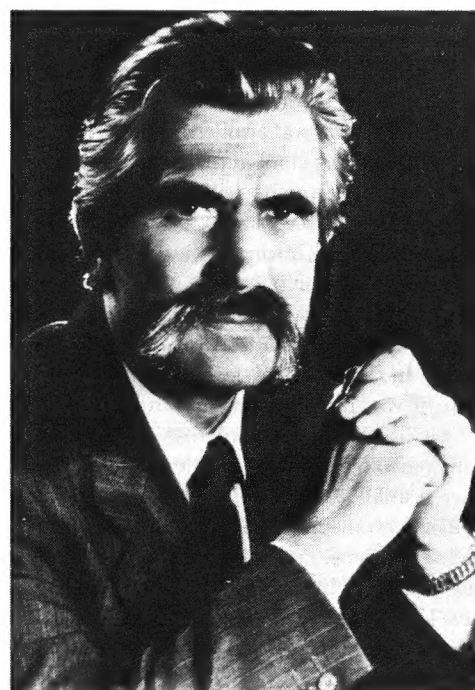
The Shevchenko Lecture is sponsored by the Ukrainian Professional and Business Club of Edmonton and organized by the Canadian Institute of Ukrainian Studies.

The likelihood of Lukianenko being appointed to his current post was once very slight. Shortly after graduating from the Faculty of Law at Moscow State University in 1958, Lukianenko dedicated himself to working toward the independence of Ukraine through peaceful means on the basis of the USSR constitution and norms of international law. For his efforts on behalf of this cause, he was twice arrested and sentenced by Soviet authorities, and, in total, spent more than 25 years in prisons, labour camps, and exile.

In June 1978, both the Canadian House of Commons and the Senate unanimously passed a resolution nominating Levko Lukianenko for a Nobel prize.

He was allowed to return to his homeland in 1989 and was chosen the first leader of the Ukrainian Republican Party the following year. This was the first non-Communist political party to be registered in Ukraine.

On his 63rd birthday (24 August 1991), Lukianenko drafted Ukraine's Declaration of Independence.



Levko Lukianenko will deliver the 28th annual Shevchenko Lecture.

Prior to his appointment as Ukraine's ambassador to Canada in May 1992, Lukianenko participated in Ukraine's delegations that negotiated with their counterparts from Russia; he has also represented Ukraine at international conferences in Brussels and Vienna.

### INVITATION TO SPECIAL TEACHING SEMINAR

Large classes don't have to be awful learning environments.

That's the message Genetics professor Ross Hodgetts will bring to a seminar 10 March, CW410 Biological Sciences Building, noon to 1 pm.

Dean of Science Dick Peter and University Teaching Services Education Director Bente Roed are inviting professors who teach large science classes to attend the practical seminar.

"In this seminar entitled *The Large Class: A Positive Note*, I will describe my personal experience since it falsifies the widely held belief that large classes are awful learning environments offering few rewards for instructors," explains Dr Hodgetts.

## Retirement Planning Seminars for Academic Staff

The Office of the Vice-President (Academic) and the Association of Academic Staff of the University of Alberta (AASUA) invite members of the AASUA and their spouses to attend a two-day retirement planning seminar. Each of the two seminars is tailored to a specific age group and will address keys to successful planning, financial planning and lifestyle considerations.

Seminar 1: Under 50 Years of Age  
April 19 2:30 - 5:00 and 7:00 - 10:00  
April 20 8:30 - noon and 1:00 - 4:30  
Seminar 2: 50 Years of Age and Over  
April 21 2:30 - 5:00 and 7:00 - 10:00  
April 22 8:30 - noon and 1:00 - 4:30

The seminars will be held in the Stollery Centre, 5th Floor, Business Building. There is no charge; coffee and lunches will be provided.

Enrollment is limited and will be on a first-come, first-served basis. If you are interested in attending, please call Lori Callahan at 492-5321. Registration deadline: 11 March.

**ACFAS-ALBERTA ET L'INSTITUT DE RECHERCHE DE LA FACULTÉ SAINT-JEAN**

5 mars, 8 h 00 à 19 h 00

"Journée du savoir": 14 communications dans les sciences humaines, naturelles, sociales et de l'éducation. Salle 247, Faculté Saint-Jean. Pour plus d'information, appeler Laurent Godbout au 465-8732.

**ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH**

26 February, 2 pm

Ulrich Hartl, associate member, Cellular Biochemistry and Biophysics Program, Rockefeller Research Laboratories, Memorial Sloan-Kettering Cancer Center, "The Role of Molecular Chaperones in Protein Folding in the Cell." 2-27 Medical Sciences Building.

2 March, 4 pm

Ellen K Shibuya, postdoctoral fellow, Department of Anatomy and Cellular Biology, Harvard Medical School, "Ras, Mos and Cyclins Activate MAP Kinase *In Vitro* in Extracts of Quiescent *Xenopus* Oocytes." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.

9 March, 4 pm

Erich Lieth, postdoctoral fellow, Department of Neurobiology, Harvard Medical School, "Building the Synapse from Molecules: ARIA and Agrin at the Neuromuscular Junction." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.

**BIOCHEMISTRY**

5 March, 11 am

Mario Capecchi, University of Utah, "Creating Mice with Targeted Mutations in Proto-oncogenes and Homeobox Genes." Bernard Snell Hall, Walter Mackenzie Centre.

12 March, 1 pm

Sergei Mirkin, Department of Genetics, University of Chicago, "DNA Triplexes and Replication." 207 Heritage Building.

**BOTANY**

4 March, 3:30 pm

Hugues Massicotte, Forest Sciences Department, University of British Columbia, "Aspects of Ectomycorrhizal Biology Using Morphological, Structural, and Ecological Approaches: The Truffle Genus *Rhizopogon*." M-149 Biological Sciences Centre.

11 March, 3:30 pm

David R Parker, Department of Soil and Environmental Sciences, University of California, Riverside, "Aluminum Rhizotoxicity: A Soil Chemist's Perspective." M-149 Biological Sciences Centre.

**CANADIAN ASSOCIATION OF NEUROSCIENCE NURSES**

27 February, 9:30 am

Susan Hirst, neurologist, Royal Alexandra Hospital, "Break Out of Migraine Misery." Registration: 492-1644. Bernard Snell Hall, Mackenzie Health Sciences Centre.

**CUSO**

9 March, 7:30 pm

Katheryne Olson, an organic chemist with Christian Farmers Federation, "Oppression, Women and Development: Realities and Myths." Room 133, Concordia College's Highlands Campus, 7128 Ada Boulevard.

**CAMPUS MINISTRY**

9 March, 7:30 pm

John O'Callaghan, "Understanding Catholicism—Morality/Moral Choices." Newman Centre, St Joseph's College.

# TALKS

**CHEMICAL ENGINEERING**

4 March, 3:30 pm

GZ Lu, "Chemical Engineering Problems in Cultivation of Animal Cells." 342 Chemical-Mineral Engineering Building.

11 March, 3:30 pm

AR Ayasse, "The Intrinsic Kinetics for the Hydrodesulfurization Reactions During the Hydrocracking of Athabasca Bitumen." 342 Chemical-Mineral Engineering Building.

**DENTISTRY**

10 March, 6:30 pm

Keith H Compton, "Enhancing Your Smile." Light supper. Fee. Registration and information: Debbie Grant, 492-5023. 4069 Dentistry-Pharmacy Centre.

**EAST ASIAN LANGUAGES AND LITERATURES**

5 March, 3 pm

Naomi McGloin, professor, University of Wisconsin, "Saying 'Yes' and 'No' in Japanese." Cosponsor: Consulate-General of Japan. B-06 Business Building.

**EAST ASIAN LANGUAGES AND LITERATURES, ART AND DESIGN, CLOTHING AND TEXTILES, AND ANTHROPOLOGY**

3 March, 3:30 pm

Joan Stanley-Baker, director, Arts Center at the National Tsing Hua University, Taiwan, "Adventures in Chinese Art and Archeology." 2-20 Fine Arts Building.

4 March, 3:30 pm

Dr Stanley-Baker, "Heian Courtly Art: The Founding of a Feminine Culture in Japan." 2-20 Fine Arts Building.

9 March, 3:30 pm

Dr Stanley-Baker, "The Transmission of Chinese Idealist Painting to Japan." 2-20 Fine Arts Building.

11 March, 7 pm

Dr Stanley-Baker, "Chinese Fashions Today" (project with video). L-1 Humanities Centre.

**ENGLISH**

1 March, noon

Linda Hutcheon, professor of English and comparative literature, University of Toronto, and Michael Hutcheon, associate professor of medicine, "Sexuality, Sin, Suffering: Syphilis, Social Decline, and...Opera." L-3 Humanities Centre.

1993 Edmund Kemper Broadus Lectures  
Fred Radford, "James Joyce and the Texts of Irish Identity."

1 March, 4 pm

"The Artist and the Nets: Self-Exile and its Contradictions." L-1 Humanities Centre.

2 March, 4 pm

"Forging the Conscience of the Race: Whose Conscience?" L-1 Humanities Centre.

3 March, 4 pm

"The Battle of the Icons: *Ulysses* and Dublin in 1903." L-1 Humanities Centre.

4 March, 4 pm

"Cultural Landscapes: Towers and Statues; Beds and Beaches." L-1 Humanities Centre.

11 March, 4 pm

Tom Pow, Scottish Exchange Fellow, and Trevor Ferguson, writer-in-residence, will read and discuss their work. L-2 Humanities Centre.

**ENTOMOLOGY**

4 March, 4 pm

Dylan Parry, "Population Dynamics of the Forest Tent Caterpillar, *Malacosoma disstria* (Lepidoptera: Lasiocampidae): Impact of Natural Enemies." TB-W1 Tory Breezeway.

11 March, 4 pm

Tracy Kutash, "Swimming Behaviour in *Baetis tricaudatus* (Ephemeroptera: Baetidae): The Long and the Short of It." TB-W1 Tory Breezeway.

**FAMILY STUDIES**

9 March, 9:30 am

Janet Fast and Brenda Munro, "Off-Farm Employment and Farm Family Expenditures." 3-57 Assiniboia Hall.

**FOOD SCIENCE**

1 March, 4 pm

Robert Stark, Agriculture Canada, Kentville, Nova Scotia, "Modified Atmosphere Packaging and Shelf Life Extension of Perishable Produce." 1-13 Agriculture-Forestry Centre.

8 March, 4 pm

Marvin Tung, Technical University of Nova Scotia, Halifax, "Viscoelastic and Failure Properties of Food Hydrocolloid Gels." 1-13 Agriculture-Forestry Centre.

**GEOGRAPHY**

5 March, 3 pm

Harry McPherson, "Water, Health and Development." 3-36 Tory Building.

**GERMANIC LANGUAGES**

5 March, 3 pm

Jacqueline Doig, "Roland Barthes and the Myth of Possession in CF Meyer's *Die Richterlin*." 326 Arts Building.

**HISTORY**

3 March, noon

Robert Whitney, Department of History, Queen's University, "Cuban Marxism in the 1920's and 1930's: Research in Progress." Cosponsor: Political Science. 2-58 Tory Building.

9 March, 3 pm

Doug Owram, "The Baby Boom Generation and Dr Spock." TB-W1 Tory Breezeway.

**HUMAN ECOLOGY: ISSUES IN THE NORTH**

2 March, 4 pm

Larry Wang, "Improving Cold Tolerance in Animals and Humans." 231A Law Centre.

9 March, 4 pm

James Dempsey, "The History of Native Education and Current Education Issues." 231A Law Centre.

**LAW**

5 March, noon

Patricia Monture-Okanee, Law, Ottawa, "Diversity in the Law." Faculty Lounge, Law Centre.

**LAW AND PHILOSOPHY**

9 March, 3:30 pm

B Russell, barrister, "Shall, May, Must: The Logic of Legal Obligation and Permission." 4-24 Humanities Centre.

**LIMNOLOGY AND FISHERIES DISCUSSION GROUP**

4 March, 12:30 pm

Carolyn Seburn, "Declining Amphibian Populations: Stimulus and Response." M-149 Biological Sciences Centre.

11 March, 12:30 pm

Chris Earle, Concordia College, "Phytoplankton Periodicity in Prairie Saline Lakes." M-149 Biological Sciences Centre.

**MUSIC**

4 March, 3:30 pm

David Gramit, "Schubert's Wanderers, Romanticism, and the Autonomous Lied." 2-32 Fine Arts Building.

9 March, 3:30 pm

Michael O'Brien, Smithsonian Institution, Washington, D.C., "The Silent Voices of the Past: Musical Instruments as Historical Documents." 2-32 Fine Arts Building.

**NURSING**

8 March, 4:15 pm

Alison Tierney, director, Nursing Research University, Department of Nursing Studies, University of Edinburgh, "Nursing/Home Care of the Elderly." 2-117 Clinical Sciences Building.

**NUTRITION AND METABOLISM RESEARCH GROUP AND PEDIATRICS**

3 March, 11 am

Eugene Chang, associate professor of medicine, Pritzker School of Medicine, University of Chicago, "Cellular and Molecular Regulation of Intestinal Fluid and Electrolyte Transport." Sponsor: Alberta Heritage Foundation for Medical Research. Classroom F, Mackenzie Health Sciences Centre.

**PERINATAL RESEARCH CENTRE**

2 March, noon

Bev O'Brien, "Nausea and Vomiting During Pregnancy: Strategies for Increasing Comfort." 2J4.02 Mackenzie Health Sciences Centre.

**PLANT SCIENCE**

2 March, 12:30 pm

Mike Alexander, "Livestock Grazing in Forest Cutbacks." 1-06 Agriculture-Forestry Centre.

4 March, 12:30 pm

Robert Grant, "Carbon Dioxide Effects Upon Photosynthesis, Transpiration and Growth of Field Crops." 1-06 Agriculture-Forestry Centre.

9 March, 12:30 pm

Tom Jensen, "Crop Rotation and Allelopathic Effects of Residues." 1-06 Agriculture-Forestry Centre.

11 March, 12:30 pm

Al Foster, "The Effects of Cover Crops on Forage Establishment." 1-06 Agriculture-Forestry Centre.

**RELIGIOUS STUDIES**

10 March, 4 pm

Marsha Hewitt, University of Toronto (Trinity College), "Cyborgs, Drag-queens, and Goddesses: Emancipatory-Regressive Paths in Feminist Theory." L-1 Humanities Centre.

**SCHOOL OF LIBRARY AND INFORMATION STUDIES AND THE UNIVERSITY LIBRARY**

12 March, 9:30 am

Ralph Manning, National Library of Canada, "The National Strategy for Preservation in Canadian Libraries Document: Its Origins and Significance for the Future of Books and Scholarship in Canada." 322 Rutherford South.



## SOCIOLOGY

4 March, noon

Mike Gillespie, "Culture as Symbolic Immortality: Death, Awareness and Intolerance of 'Revolutionaries', 'Racists', and 'Nazis'." 5-15 Tory Building.

11 March, noon

Horst J Helle, director, Institute for Sociology, Universitaet Muenchen, Germany, "German Re-unification in the Context of the New European Community." 5-15 Tory Building.

## SOIL SCIENCE

4 March, 12:30 pm

Mike Rutherford, "Natural Environmental Radioactivity." 2-36 Earth Sciences Building.

## UNIVERSITY TEACHING SERVICES

2 March, 3:30 pm

Bill Isley, Northern Alberta Institute of Technology, "Improvement Through Self-Assessment." 269 CAB.

3 March, 3 pm

Karen Kovach, "Personalized Assistance in Learning." 269 CAB.

4 March, 3:30 pm

Todd Rogers, "Principles for Fair Student Assessment Practices." 269 CAB.

8 March, noon

Allan A Warrack, "New Approach—Triage Matrix for Text Chapters." TB-W2 Tory Breezeway.

9 March, 3:30

Barbara Paulson, "Stress Management: Getting Started." 269 CAB.

10 March, 3 pm

Bill Stewart, "Conflict: Handle With Care!" 269 CAB.

11 March, 3:30 pm

Kate Broomfield, Marsha Padfield and Art Quinney, "Teaching Improvement: Who Counts?" 269 CAB.

## ZOOLOGY

5 March, 3:30 pm

Richard G Lipsey, Alcan Fellow, Canadian Institute for Advanced Research, "Technological Change, Globalisation and Economic Policy." M-149 Biological Sciences Centre.

*This symbol denotes environmentally related seminars/events. If you wish to have an environmentally related event listed in this way, please contact: The Environmental Research and Studies Centre, 492-6659.*

## Guest lecturer will examine the relationship of theology and bioethics

The speaker for the 4th Annual Lecture Series of St Joseph's College Catholic Bioethics Centre is Lisa Sowle Cahill, professor of theology at Boston College.

Professor Cahill will lecture 3 March at 7 pm ("Reproductive Technologies from a Feminist Perspective") and conduct three sessions the following day. These are "Abortion: Values, Norms and Exceptions" (9 am), a case study (to be announced) (11 am) and "Theology and Bioethics: Should Religious Traditions Have Public Voice?" (2 pm).

All sessions will take place in Bernard Snell Hall, Mackenzie Health Sciences Centre. Cost: \$40 total, or \$10 per session (no charge for students). There is also a lunch available for 4 March between 12:30 and 2, for an additional cost of \$6.50.

## EVENTS

### EXHIBITIONS

#### CLOTHING AND TEXTILES COLLECTION

Until 18 June

"Changing Suit: The Evolution of Men's Business Wear 1955-85"—an exhibition of men's wear from the collection. Hours: Monday to Friday, 8:30 am to 5 pm. Basement, Home Economics Building.

#### EXTENSION CENTRE GALLERY

Until 26 March

"Masterful Drawings"—an exhibition of drawings of Edmonton artists. Gallery hours: Monday to Thursday, 8:30 am to 8 pm; Friday, 8:30 am to 4:30 pm; Saturday, 9 am to noon. Information: 492-3034. 2-54 University Extension Centre.

#### FAB GALLERY

Until 7 March

"Shedding Light."

Until 7 March

"Natural Resource: High Voltage."

Gallery hours: Tuesday to Friday, 10 am to

5 pm; Sunday, 2 pm to 5 pm; closed Saturday, Monday and statutory holidays.

#### MCMULLEN GALLERY

Until 3 March

"The Dolls of Japan—Shapes of Prayer, Embodiments of Love." Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm (subject to availability of volunteers). Information: 492-8428, 492-4211. Walter C Mackenzie Health Sciences Centre.

### SPORTS

#### TRACK AND FIELD

26 and 27 February

Canada West Finals

#### VOLLEYBALL

5 to 7 March

CIAU Men's National Volleyball Championships



## University of Alberta Alumni Association 75th Anniversary Scholarship

The University of Alberta Alumni Association awards an annual scholarship which was established in 1983 at the time of the University's 75th Anniversary to recognize the many contributions of the University's students.

The scholarship has a value of \$1,000 and will be presented to a full-time undergraduate student who has attended the University of Alberta for at least the two previous years.

### CRITERIA

The applicant's contribution to campus life and to the University of Alberta community will be considered.

The applicant should have a satisfactory academic standing and plan to continue studies at the University of Alberta in 1993-94.

Previous recipients of major Alumni Association scholarships (the 75th Anniversary, Maimie S. Simpson Memorial and Reginald C. Lister Scholarships) are not eligible for this award.

### Application forms and further information may be obtained from:

Office of Alumni Affairs  
430 Athabasca Hall, University of Alberta  
Edmonton, Alberta T6G 2E8

The application deadline is **Friday, 5 March**. The scholarship will be awarded during the 1993-94 academic year.

## POSITIONS



The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

### ACADEMIC

#### ASSOCIATE VICE-PRESIDENT (RESEARCH)

The Vice-President (Research) invites applications from the academic staff for this full-time appointment.

The Associate Vice-President (Research) will oversee the operation of the base-budgeted Interdisciplinary Research Units (IRUs), will assist with input into the University budget, and will assist in revising, formulating and articulating University of Alberta research policy. In addition, the Associate Vice-President will advise the Vice-President on a wide variety of research issues, including industrial-community relations, and will act for the Vice-President from time to time. The Associate Vice-President will be working closely with the Vice-President to promote and facilitate high standards of research excellence throughout the University.

Staff members interested in this position should communicate directly in writing with the Vice-President (Research), Dr Martha Piper, 3-12C University Hall, by Friday, 19 March 1993. The appointment will be effective 1 July 1993.

### SUPPORT STAFF

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 19 February 1993. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin, the postings in PSSR and/or call the Job Information Line at 492-7205 (24 hours). Positions available as of 19 February 1993.

The salary rates for the following positions reflect adjustments in accordance with the new classification system and pay plan.

CLERK TYPIST (Grade 4), University Health Services, (\$1,732 - \$2,135)

CLERK TYPIST (Receptionist) (Grade 5), Office of the Dean of Student Services, (\$1,891 - \$2,343)

ACCOUNTS CLERK (Billing/Invoice) (Grade 5), Physical Plant - Administration, (\$1,891 - \$2,343)

SECRETARY (Grade 5) (Trust), Family Medicine, (\$1,891 - \$2,343)

SECRETARY (Grade 6), Civil Engineering, (\$2,070 - \$2,580)

SECRETARY (Graduate Program) (Grade 6), English, (\$2,070 - \$2,580)

## Donation enhances Geophysics Library

The seismic industry in Alberta started flexing its muscles about 30 years, an event and time for which the Geophysics Library had had a dearth of reference material. That changed abruptly when Earl Lipsett, a retired geophysics instructor at NAIT, donated 102 books to the library, a resource of the Institute of Geophysics, Meteorology and Space Physics.

"It's rather nice to have these volumes, they're a valuable archive for students," says Ernie Kanasevich, Chair of the Physics Department and Director of the Institute.

Texts such as *Geophysical Exploration* and *Geophysical Prospecting* are bursting with initial

ideas, the fundamentals of seismic exploration and patent information, Dr Kanasevich says. All the books have been catalogued and are in place in the library.

Lipsett, a U of A alumnus, said he donated the books in repayment of his time at the University.

The donation brings the number of books in the Geophysics Library to about 1,100. Most of the other titles were donated by oil companies.



Earl Lipsett, right, shows Ernie Kanasevich one of the 102 books on seismic exploration that he donated to the Geophysics Library.

DEPARTMENTAL/EXECUTIVE SECRETARY (Grade 6), Faculty of Medicine, (\$2,070 - \$2,580)

ADMINISTRATIVE ASSISTANT (Grade 8), Dean of Science, (\$2,437 - \$3,071)

PROGRAMMER ANALYST (Grade 9), Office of the Registrar, (\$2,636 - \$3,343)

PROGRAMMER ANALYST (Grade 9) (Term to 18 February 1994), Office of the Registrar (\$2,636 - \$3,343)

The following positions retain salary rates in accordance with the previous classification system and pay plan.

SENIOR FINANCIAL RECORDS CLERK (Term to 31 December 1993), Advancement Services, (\$1,597 - \$2,005)

TECHNICIAN I/TECHNOLOGIST I (Trust/Part-time/Hourly), Medicine, (\$12.16 - \$14.99/hour)

PROGRAMMER ANALYST I/II (Trust), Biochemistry, (\$2,273 - \$3,497)

PROGRAMMER ANALYST II (Trust/ Term to 1 February 1994), Computing Science (\$2,692 - \$3,497)



#### ACCOMMODATIONS AVAILABLE

VICTORIA PROPERTIES - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max, Ports West, Victoria, BC.

SHARE - Idlewyde home with two other people. \$270/month plus utilities. Janet/Mike, Western Relocation Services, 434-4629.

RENT - Lansdowne, short term. Furnished four bedroom bungalow, fireplace, double garage. \$800/month plus utilities. Western Relocation, 434-4629.

RENT - Riverbend, Falconer. Exquisite two storey, four bedrooms, many extras. \$1,600/month, immediate. Mike/Janet, Western Relocation Services, 434-4629.

RENT - Parkallen, near University. Two bedroom bungalow, furnished/unfurnished, single garage. Immediate. \$750/month. Janet/Mike, Western Relocation, 434-4629.

RENT - Pleasantview bungalow, inviting, new, three bedrooms. \$1,000/month. Western Relocation, 434-4629.

SALE - Exceptional Belgravia bungalow, two bedrooms, bright, modern kitchen, newer basement development, south yard, deck. Great location. \$154,900. Ed Lastiwka, Royal LePage Realty, 446-3800, 437-7480.

RENT - Two storey, three bedroom house with den on main floor, in north Windsor Park, two blocks west of the University. No pets, nonsmokers preferred. Available 1 March. 433-0646.

RENT - Sabbatical, exquisite four bedroom bungalow. Incredible basement, furnished, west end. August - August. \$950. 492-1272, 444-6729.

RENT - May-July, fully furnished, three bedroom, English-style cottage. New kitchen, dining room, hardwood polished floors. University Avenue, \$990/month. 438-7886, 492-5731.

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. All enquiries welcome, 492-7044.

SALE - Whitemud Way, 4612 151 Street, Riverbend. Gorgeous, 1,800 square foot townhome in mint condition. Loft, oak, jacuzzi, fireplace, \$174,900. Ten minutes to campus. Hugh Moncrieff, Re/Max Real Estate, 488-4000.

SALE - Condo/townhome, Hycourt, #16, 11016 86 Avenue. Three bedrooms, underground parking, fireplace. Large assumable mortgage, list \$134,900. Hugh Moncrieff, Re/Max Real Estate, 488-4000.

RENT - Sabbatical, exceptional two bedroom condo, furnished, parking, University/Strathcona. June/July 1993 - June 1994. \$1,100/month. 492-2800, 439-3424.

RENT - Two bedroom suite in house. Near University, renovated, large, very quiet, parking, \$475/month. Georgina, 424-2317.

SALE - Brookside, beautiful bungalow, 1,550'. Maple, hardwood floors, main floor family room, excellent basement development, double detached garage, private deck. This is very desirable. Val Cload, Spencer Realty, 435-0808.

RENT - Executive, elegant, luxurious two bedroom, 1,500' condo, river valley view. Regular conveniences, excellent location, 117 Street/100 Avenue. \$1,300. 466-5091.

RENT - April/May - August. Lansdowne, fully furnished home, rent negotiable. 492-1067 day, 434-2960 evening.

SALE - Parkallen, quiet, tree-lined street. 1 1/2 storey, three bedrooms, two piece up, four piece main. \$125,900. Offers please. Pat von Borstel, Spencer Realty, 435-0808.



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For more information call Flora at 439-5353



Faculty of Extension  
University of Alberta

Strauss Celebration at the San Francisco Opera  
June 26-29, 1993

This educational travel tour to the "Celebration of Strauss Festival" at the San Francisco Opera includes *Salome*, *Der Rosenkavalier*, and *Capriccio* (*Daphne* is available as an option) featuring Kiri Te Kanawa, Frederica von Stade, Maria Ewing, Robert Tear, Leonie Rysanek, Peter Hall, Charles Mackerras, and many more. The resource person is Brian Harris, Associate Professor in the Department of Music. Call Mr. Val Smyth at 492-0166 for further information.



Tues., March 2 at 8 pm  
Capital Brass Quintet  
Concert

Fri., March 5 at 8 pm  
Faculty Recital: Stéphane  
Lemelin, piano

In Convocation Hall, Arts Bldg.

Info: Dept. of Music: 492-3263.

## Catherine M. Fletcher D.D.S.

### DENTIST

#980, 8215-112 Street  
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**SALE** - Riverbend, charming three bedroom. 1 1/2 storey, family room, three piece ensuite. Landscaped yard, quiet. \$181,500. Pat von Borstel, Spencer Realty, 435-0808.

#### ACCOMMODATIONS WANTED

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### United Church Campus Ministry Home Coming Weekend 1993

FOR INFORMATION AND TICKETS: 492-4621

### MARCH 12TH 7:00 p.m. A Service of Worship in Celebration of 35 Years of Ministry

Old St. Stephen's College Chapel

### MARCH 13 10:00-4:00 THEOLOGY AT THE END OF AN AGE IN CONVERSATION WORKSHOP \$10.00

University of Alberta Students' Union Bld.  
Room 158A

### MARCH 13 6:00PM RIVERBEND UNITED CHURCH United Church Campus Ministry FUNDRAISING DINNER TICKETS \$25.00



## Varscona Tower

is offering you

### 2 FREE TICKETS TO HAWAII

with the purchase of a condominium unit \*

### PLUS \$3,000 Price Discount

- \* Only 14 one bedroom units remain
- \* University Location - walking distance to U of A Hospital and Campus
- \* 5% Down \* CMHC Approved

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Sandra or Emily  
433 - 4050

FREE Large Pizza 73  
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Show Suites

Show Suites  
Mon. - Fri. 2:30 - 7:30 p.m.  
Sat. - Sun. 12:00 - 5:00 p.m.

11007 - 83 Avenue

Sponsored by Marlin Travel PIZZA 73

\* Offer expires March 15, 1993, some conditions apply

## Professor Richard G Lipsey

Alcan Fellow, Canadian Institute  
of Advanced Research, Simon Fraser University,

Will Give a Public Lecture

"Technological Change, Globalisation  
and Economic Policy"

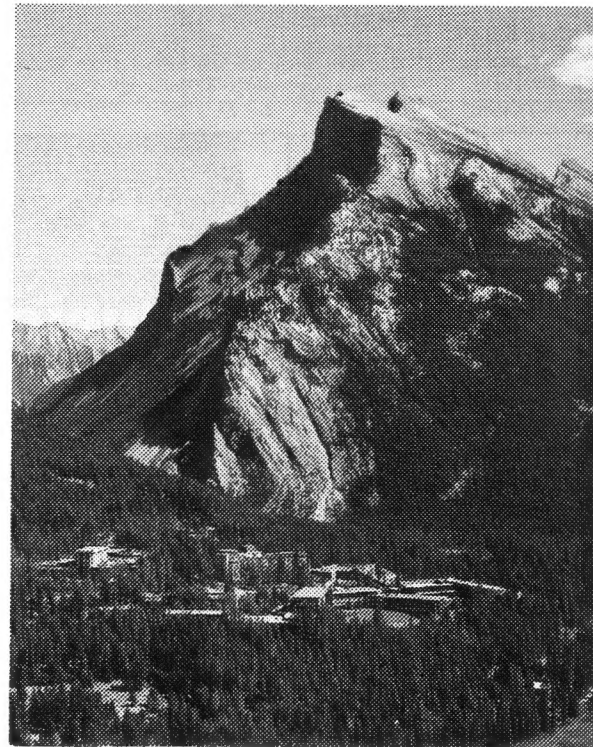
on 5 March at 4pm  
in Room TL12, Henry Marshall  
Tory Building

His Lecture is sponsored by President Paul Davenport,  
The Deans of Arts and Science, and the  
Royal Society of Canada

## THE BANFF CENTRE FOR CONFERENCES

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private bath, three meals per day, two  
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Contact The Banff  
Centre for Conferences at  
403-762-6204 for further  
information.

\*Rates indicated are per person  
based on double occupancy, single and suite  
rates available upon request. These rates are  
for groups of 10 or more.

